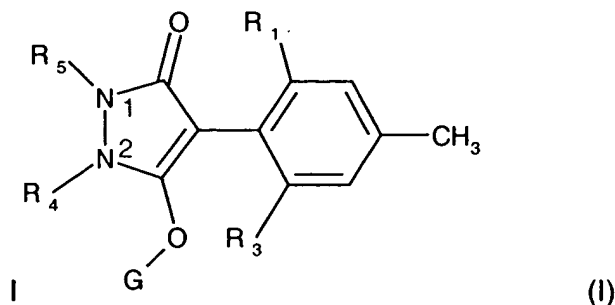


What is claimed is:

1. A selective herbicidal composition comprising, in addition to customary inert formulation assistants, as the active ingredient a mixture of

a) a herbicidally effective amount of a compound of formula I



wherein

R₁ and R₃ independently of one another are halogen, nitro, cyano, C₁-C₄-alkyl, C₂-C₄-alkenyl, C₂-C₄-alkinyl, C₁-C₄-halogenalkyl, C₂-C₆-halogenalkenyl, C₃-C₆-cycloalkyl, halogen-substituted C₃-C₆-cycloalkyl, C₂-C₆-alkoxyalkyl, C₂-C₆-alkylthioalkyl, hydroxy, mercapto, C₁-C₆-alkoxy, C₃-C₆-alkenyloxy, C₃-C₆-alkinyloxy, carbonyl, carboxyl, C₁-C₄-alkylcarbonyl, C₁-C₄-hydroxyalkyl, C₁-C₄-alkoxycarbonyl, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, amino, C₁-C₄-alkylamino or di-(C₁-C₄-alkyl)-amino;

R₄ and R₅ together signify a group

-C-R₆(R₇)-O-C-R₈(R₉)-C-R₁₀(R₁₁)-C-R₁₂(R₁₃)- (Z₁),

-C-R₁₄(R₁₅)-C-R₁₆(R₁₇)-O-C-R₁₈(R₁₉)-C-R₂₀(R₂₁)- (Z₂), or

-C-R₂₂(R₂₃)-C-R₂₄(R₂₅)-C-R₂₆(R₂₇)-O-C-R₂₈(R₂₉)-; (Z₃);

wherein R₆, R₇, R₈, R₉, R₁₀, R₁₁, R₁₂, R₁₃, R₁₄, R₁₅, R₁₆, R₁₇, R₁₈, R₁₉, R₂₀, R₂₁, R₂₂, R₂₃, R₂₄, R₂₅, R₂₆, R₂₇, R₂₈, and R₂₉ independently of one another are hydrogen, halogen, C₁-C₄-alkyl or C₁-C₄-halogenalkyl, whereby an alkylene ring, which together with the carbon atoms of groups Z₁, Z₂ or Z₃ contains 2 to 6 carbon atoms and may be interrupted by oxygen, may be either anellated or spiro-linked to the carbon atoms of groups Z₁, Z₂ or Z₃, or this alkylene ring overbridges at least one ring atom of groups Gruppen Z₁, Z₂ or Z₃;

G is hydrogen, -C(X₁)-R₃₀, -C(X₂)-X₃-R₃₁, -C(X₄)-N(R₃₂)-R₃₃, -SO₂-R₃₄, an alkaline, alkaline earth, sulfonium or ammonium cation or -P(X₅)(R₃₅)-R₃₆ or -CH₂-X₆-R₃₇;

X₁, X₂, X₃, X₄, X₅ and X₆ independently of one another, are oxygen or sulfur;

R₃₀, R₃₁, R₃₂ und R₃₃ independently of one another, are hydrogen,

C₁-C₁₀-alkyl, C₁-C₁₀-halogenalkyl, C₁-C₁₀-cyanoalkyl, C₁-C₁₀-nitroalkyl, C₁-C₁₀-aminoalkyl, C₁-C₅-alkylamino-C₁-C₅-alkyl, C₂-C₈-dialkylamino-C₁-C₅-alkyl, C₃-C₇-cycloalkyl-C₁-C₅-alkyl, C₂-C₁₀-alkoxy-alkyl, C₄-C₁₀-alkenyloxy-alkyl, C₄-C₁₀-alkynyloxy-alkyl, C₂-C₁₀-alkylthio-alkyl, C₁-C₅-alkylsulfoxyl-C₁-C₅-alkyl, C₁-C₅-alkylsulfonyl-C₁-C₅-alkyl, C₂-C₈-alkylideneamino-oxy-C₁-C₅-alkyl, C₁-C₅-alkylcarbonyl-C₁-C₅-alkyl, C₁-C₅-alkoxycarbonyl-C₁-C₅-alkyl, C₁-C₅-amino-carbonyl-C₁-C₅-alkyl, C₂-C₈-dialkylamino-carbonyl-C₁-C₅-alkyl, C₁-C₅-alkylcarbonylamino-C₁-C₅-alkyl, C₂-C₅-alkylcarbonyl-(C₁-C₅-alkyl)-aminoalkyl, C₃-C₆-trialkylsilyl-C₁-C₅-alkyl, phenyl-C₁-C₅-alkyl, heteroaryl-C₁-C₅-alkyl, phenoxy-C₁-C₅-alkyl, heteroaryloxy-C₁-C₅-alkyl, C₂-C₅-alkenyl, C₂-C₅-halogenalkenyl, C₃-C₈-cycloalkyl, phenyl; or phenyl substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; or heteroaryl or heteroaryl amino; heteroaryl amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; diheteroaryl amino, diheteroaryl amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; phenyl amino, phenyl amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; diphenyl amino, diphenyl amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; C₃-C₇-cycloalkyl amino, C₃-C₇-cycloalkyl amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; di-C₃-C₇-cycloalkyl amino, di-C₃-C₇-cycloalkyl amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; C₃-C₇-cycloalkoxy or C₃-C₇-cycloalkoxy substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro;

R₃₄, R₃₅ and R₃₆ independently of one another, are hydrogen, C₁-C₁₀-alkyl, C₁-C₁₀-halogenalkyl, C₁-C₁₀-cyanoalkyl, C₁-C₁₀-nitroalkyl, C₁-C₁₀-aminoalkyl, C₁-C₅-alkylamino-C₁-C₅-alkyl, C₂-C₈-dialkylamino-C₁-C₅-alkyl, C₃-C₇-cycloalkyl-C₁-C₅-alkyl, C₂-C₁₀-alkoxy-alkyl, C₄-C₁₀-alkenyloxy-alkyl, C₄-C₁₀-alkynyloxy-alkyl, C₂-C₁₀-alkylthio-alkyl, C₁-C₅-alkylsulfoxyl-C₁-C₅-alkyl, C₁-C₅-alkylsulfonyl-C₁-C₅-alkyl, C₂-C₈-alkylideneamino-oxy-C₁-C₅-alkyl, C₁-C₅-alkylcarbonyl-C₁-C₅-alkyl, C₁-C₅-alkoxycarbonyl-C₁-C₅-alkyl, C₁-C₅-amino-carbonyl-C₁-C₅-alkyl, C₂-C₈-dialkylamino-carbonyl-C₁-C₅-alkyl, C₁-C₅-alkylcarbonylamino-C₁-C₅-alkyl, C₂-C₅-alkylcarbonyl-(C₁-C₅-alkyl)-aminoalkyl, C₃-C₆-trialkylsilyl-C₁-C₅-alkyl, phenyl-C₁-C₅-alkyl, heteroaryl-C₁-C₅-alkyl, phenoxy-C₁-C₅-alkyl, heteroaryloxy-C₁-C₅-alkyl, C₂-C₅-alkenyl, C₂-C₅-halogenalkenyl, C₃-C₈-cycloalkyl, phenyl; or phenyl substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; or heteroaryl or heteroaryl amino; heteroaryl amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-

alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; diheteroaryl-amino, diheteroaryl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; phenyl-amino, phenyl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; diphenyl-amino, diphenyl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; C₃-C₇-cycloalkyl-amino, C₃-C₇-cycloalkyl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; di-C₃-C₇-cycloalkyl-amino, di-C₃-C₇-cycloalkyl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; C₃-C₇-cycloalkoxy or C₃-C₇-cycloalkoxy substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; C₁-C₁₀-alkoxy, C₁-C₁₀-halogenalkoxy, C₁-C₅-alkyl-amino, C₂-C₈-dialkyl-amino as well as benzyloxy or phenoxy, whereby the benzyl and phenyl groups in turn may be substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano, formyl, acetyl, propionyl, carboxyl, C₁-C₅-alkoxycarbonyl, methylthio, ethylthio, or nitro; and

R₃₇ is C₁-C₁₀-alkyl, C₁-C₁₀-halogenalkyl, C₁-C₁₀-cyanoalkyl, C₁-C₁₀-nitroalkyl, C₁-C₁₀-aminoalkyl, C₁-C₅-alkyl-amino-C₁-C₅-alkyl, C₂-C₈-dialkyl-amino-C₁-C₅-alkyl, C₃-C₇-cycloalkyl-C₁-C₅-alkyl, C₂-C₁₀-alkoxy-alkyl, C₄-C₁₀-alkenyloxy-alkyl, C₄-C₁₀-alkynyloxy-alkyl, C₂-C₁₀-alkylthio-alkyl, C₁-C₅-alkylsulfoxyl-C₁-C₅-alkyl, C₁-C₅-alkylsulfonyl-C₁-C₅-alkyl, C₂-C₈-alkylideneamino-oxy-C₁-C₅-alkyl, C₁-C₅-alkylcarbonyl-C₁-C₅-alkyl, C₁-C₅-alkoxycarbonyl-C₁-C₅-alkyl, C₁-C₅-amino-carbonyl-C₁-C₅-alkyl, C₂-C₈-dialkyl-amino-carbonyl-C₁-C₅-alkyl, C₁-C₅-alkylcarbonylamino-C₁-C₅-alkyl, C₂-C₅-alkylcarbonyl-(C₁-C₅-alkyl)-aminoalkyl, C₃-C₆-trialkylsilyl-C₁-C₅-alkyl, phenyl-C₁-C₅-alkyl, heteroaryl-C₁-C₅-alkyl, phenoxy-C₁-C₅-alkyl, heteroaryloxy-C₁-C₅-alkyl, C₂-C₅-alkenyl, C₂-C₅-halogenalkenyl, C₃-C₈-cycloalkyl, phenyl; or phenyl substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; or heteroaryl or heteroaryl-amino; heteroaryl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; diheteroaryl-amino, diheteroaryl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; phenyl-amino, phenyl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; diphenyl-amino, diphenyl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; C₃-C₇-cycloalkyl-amino, C₃-C₇-cycloalkyl-amino substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; di-C₃-C₇-cycloalkyl-amino, di-C₃-C₇-cycloalkyl-amino

substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; C₃-C₇-cycloalkoxy or C₃-C₇-cycloalkoxy substituted by C₁-C₃-alkyl, C₁-C₃-halogenalkyl, C₁-C₃-alkoxy, C₁-C₃-halogenalkoxy, halogen, cyano or nitro; or C₁-C₁₀-alkyl-carbonyl; as well as salts and diastereoisomers of the compounds of formula I, with the proviso that R₁ and R₃ are not simultaneously methyl; and;

b) a herbicidally synergistic amount of at least one herbicide selected from the classes of phenoxy-phenoxypropionic acids, hydroxylamines, sulfonylureas, imidazolinones, pyrimidines, triazines, ureas, PPO, chloroacetanilides, phenoxyacetic acids, triazinones, dinitroanilines, azinones, carbamates, oxyacetamides, thiolcarbamates,azole-ureas, benzoic acids, anilides, nitriles, triones and sulfonamides, as well as from the herbicides amitrol, benfuresate, bentazone, cinmethylin, clomazone, chlopyralid, difenzoquat, dithiopyr, ethofumesate, flurochloridone, indanofane, isoxaben, oxaziclomefone, pyridate, pyridafol, quinchlorac, quinmerac, tridiphane and flamprop.

2. Composition according to claim 1, which contains, to antagonise the herbicide, an antidotally effective amount of a safener selected from cloquintocet, an alkali, alkaline earth, sulfonium or ammonium cation of cloquintocet, cloquintocet-mexyl, mefenpyr, an alkali, alkaline earth, sulfonium or ammonium cation of mefenpyr and mefenpyr-diethyl.

3. Composition according to claim 1, which contains an additive comprising an oil of vegetable or animal origin, a mineral oil, the alkylesters thereof or mixtures of these oils and oil derivatives.

4. A method of selectively controlling weeds and grasses in crops of cultivated plants, which comprises treating said cultivated plants, the seeds or seedlings or the crop area thereof, with a composition according to claim 1.

5. A method of selectively controlling weeds and grasses in crops of cultivated plants, which comprises treating said cultivated plants, the seeds or seedlings or the crop area thereof, with a composition according to claim 2.

6. A method of selectively controlling weeds and grasses in crops of cultivated plants, which comprises treating said cultivated plants, the seeds or seedlings or the crop area thereof, with a composition according to claim 3.

7. A method according to claim 4 wherein the cultivated plant is cereal or maize.